

CERTIFICATE OF ANALYSIS

Standard product specification

4-Hydroxy-4-Methyl-2-Pentanone

CAS 123-42-2 · C₆H₁₂O₂ · ≥99.0% Technical


STRUCTURAL FORMULA

1. PRODUCT IDENTITY

Product name	4-Hydroxy-4-Methyl-2-Pentanone
C.A.S. number	123-42-2
Molecular formula	C ₆ H ₁₂ O ₂
Molecular weight	116.16 g/mol
Grade / standard	≥99.0% Technical
Description	Clear colorless liquid
Product group	Ketones
Category	Solvents & Glycols
Country of origin	India
Packing	Bags, drums, carboys, IBC or ISO tank as applicable — customer-specified packing available
Storage	Cool, dry, well-ventilated place in tightly closed original packing

2. ANALYTICAL SPECIFICATION

S. NO.	TEST PARAMETER	SPECIFICATION	TYPICAL RESULT	METHOD
1	Description	Clear colorless liquid	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Assay	Not less than 99.0 % w/w	99.30	Gas Chromatography
4	Purity (by GC)	Not less than 99.5 % (area)	99.62	Gas Chromatography
5	Colour (APHA / Pt-Co)	Not more than 10	2	ASTM D1209

6	Water Content	Not more than 0.05 % w/w	0.0097	Karl Fischer titration
7	Acidity (as acetic acid)	Not more than 0.002 % w/w	0.0003	Titrimetry
8	Residue on Evaporation	Not more than 0.001 % w/w	0.0004	Gravimetry
9	Specific Gravity at 25 °C	As per specification	Conforms	Pycnometry / ASTM D4052
10	Refractive Index at 20 °C	As per specification	Conforms	Refractometry / ASTM D1218

3. DECLARATION

This document sets out the standard specification for 4-Hydroxy-4-Methyl-2-Pentanone and applies to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd. It is not a lot-specific release document; a lot-specific certificate carrying the analysis of the material actually shipped is issued with, and travels with, each consignment. Scapex Exports supplies against customer-specified assay limits and pharmacopoeial standards — send your specification sheet and we confirm compliance in writing before the order is accepted.



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